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## **1.1 Purpose of this document**

Welcome to the **MEDplat Quick Start Guide**.

This document intends to provide detailed information for the expedited setup and deployment of MEDplat. It is a useful go-to guide that gives an overall description of the flow of the system.

This document also outlines the different sets of tools and technologies used in the development of MEDplat.

## 1.2 Introduction to MEDplat

MEDplat is a comprehensive, low-code Public Health Management Solution, highly customizable and suitable for public and primary health implementations. It is a **point-of-care application** that provides an interface for healthcare providers through a **mobile app** and a **web interface.** This framework completely digitizes care delivery and management across all stakeholders.

It allows quick implementation in a **plug-and-play** sense while allowing ample customization abilities. Despite this, it is **robust** and can be **scaled up or down** based on the needs of the implementation.

## 1.3 Prerequisites

***A complete list of tools & technologies used in the MEDplat application is given below.***

| **Programming languages** | 1. **Node** |
| --- | --- |
| 1. **Java 13** |
| 1. **Android** |
|  | |
| **Database** | 1. **PostgreSQL 15** |
|  | |
| **IDE** | 1. **Visual Studio Code** |
| 1. **IntelliJ IDEA OR Eclipse** |
| 1. **Android Studio** |

| **Other tools** | 1. **Npm** |
| --- | --- |
| 1. **Bower** |

## 1.4 Process for configuration

* Get a machine with the minimum hardware configuration specified in the table below.

| **Processor** | 64-bit processor with Second Level Address Translation (SLAT) |
| --- | --- |
| **RAM** | 4 GB or more is recommended |
| **Operating System** | For **Windows:**   * WSL version 1.1.3.0 or above. * Windows 11 64-bit: Home or Pro version 21H2 or higher, or Enterprise or Education version 21H2 or higher. * Windows 10 64-bit: Home or Pro 21H2 (build 19044) or higher, or Enterprise or Education 21H2 (build 19044) or higher. * Enable the WSL 2 feature on Windows. For detailed instructions, refer to the [Microsoft documentation](https://docs.microsoft.com/en-us/windows/wsl/install-win10).   For **Linux:**   * 4-bit kernel and CPU support for virtualization. * KVM virtualization support. Follow the [KVM virtualization support instructions](https://docs.docker.com/desktop/install/linux-install/#kvm-virtualization-support) to check if the KVM kernel modules are enabled and how to provide access to the kvm device. * **QEMU must be version 5.2 or newer.** We recommend upgrading to the latest version. * systemd init system. * Gnome, KDE, or MATE Desktop environment.   + For many Linux distros, the Gnome environment does not support tray icons. To add support for tray icons, you need to install a Gnome extension. For example, [AppIndicator](https://extensions.gnome.org/extension/615/appindicator-support/). |

| **NOTE:** Please ensure to install Docker and Docker Compose prior to the application configuration. You can easily download docker from the following link: <https://www.docker.com/> |
| --- |

***To configure the MEDplat application, please follow the steps below.***

### Step 1) Docker Server & Mobile App

**Gitlab** is being used as a source repository for the MEDplat application. The current URL for the

source repository is <https://github.com/ArgusoftOpen/medplat.git>.

* You need to clone the Git repository using the git command. To clone, Open the **Command**

**prompt**/**Terminal,** and enter the below-given command.

| git clone https://github.com/ArgusoftOpen/medplat.git |
| --- |

* Open the project using IDE Visual Studio Code on the machine
* Run the below given commands in order to install all the dependencies.

| cd imtecho-web  docker build . -f imtecho-web/Dockerfile -t imtecho-image-backend --progress=plain |
| --- |

*The above command will take* ***10-15 minutes approx*** *in order to download all the dependencies.*

* Once all the dependencies are installed successfully, please run the below command to

Install the database related dependencies.

| docker-compose up |
| --- |

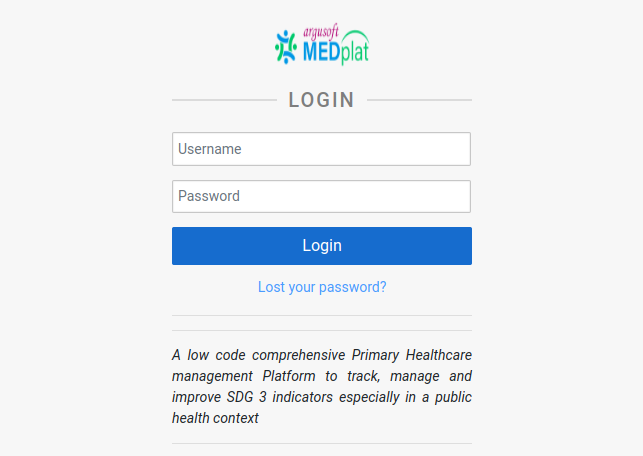
Once the command is executed successfully, all the database related dependencies will also be installed.

### Step 2) Perform Login on web

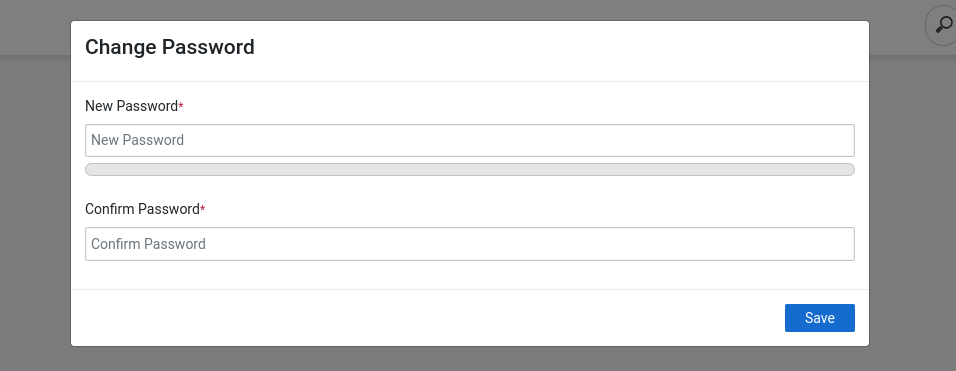
* You can access MEDplat at [**http://localhost:8181**](http://localhost:8181)
* Login into the admin panel using the following credentials:

Username = **admin**

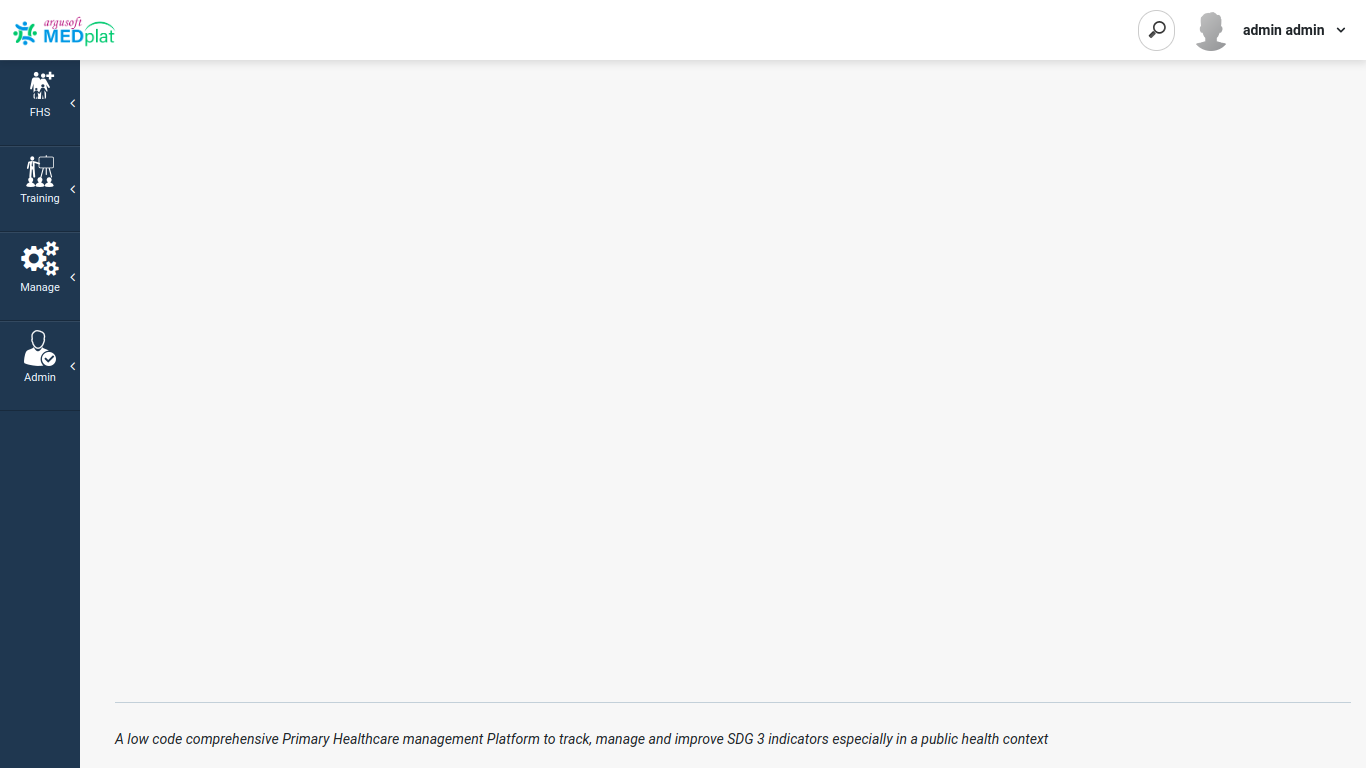
Password = **12345678**

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Please note that after performing login for the ***first time***, you will be asked to change the password as shown below.



After successful login, the following screen will appear.



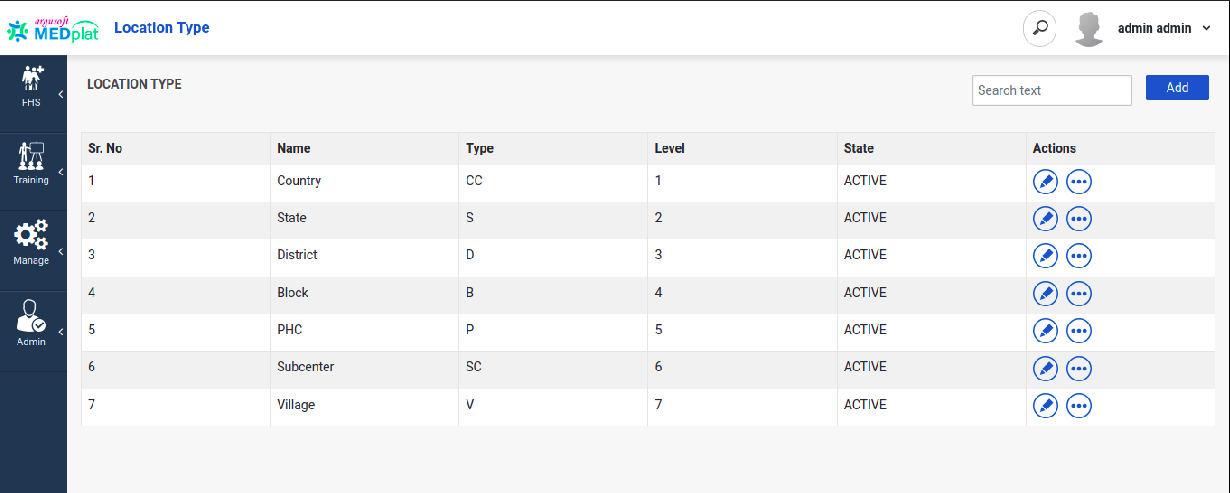
### Step 3) Adding location type

Once the environment is set up successfully, the next step is to feed ***location information***. The location hierarchy of any country/context must be defined beforehand. On the basis of location hierarchy, appropriate types need to be created and then the locations can be added.

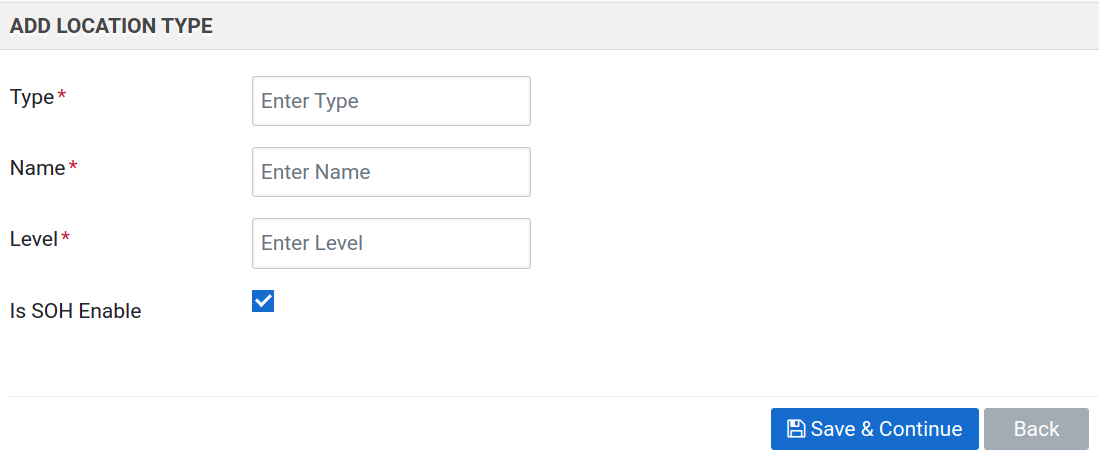
MEDPlat allows you to add any location type relevant to your context. In brief, it is necessary for MEDPlat to recognize the location hierarchy of the country.

*To add a location type, follow the steps given below.*

* Navigate to **Manage** **>** click on **‘Location Type’,** andthe following screen will appear



* Click on [2022-04-18_15-24.png](https://medplatdoc.argusoft.com/uploads/images/gallery/2022-04/2022-04-18-15-24.png) visible onthe top-right corner to add a new location type, and you will see the following screen



* Enter the **type\*** of location. It is a shortcode for the location type e.g., ‘s’ for State. [Mandatory]

* Enter the **name\*** of the location type e.g., Country, State, etc. [Mandatory]
* Enter the **level\*** of location type. ‘Level’ describes the position at which the type occurs in the location hierarchy e.g., Country has level 1, State/Province has level 2, etc. [Mandatory]
* Click on [2022-04-18_15-38.png](https://medplatdoc.argusoft.com/uploads/images/gallery/2022-04/2022-04-18-15-38.png), and you will see a notification and the location type will be added.

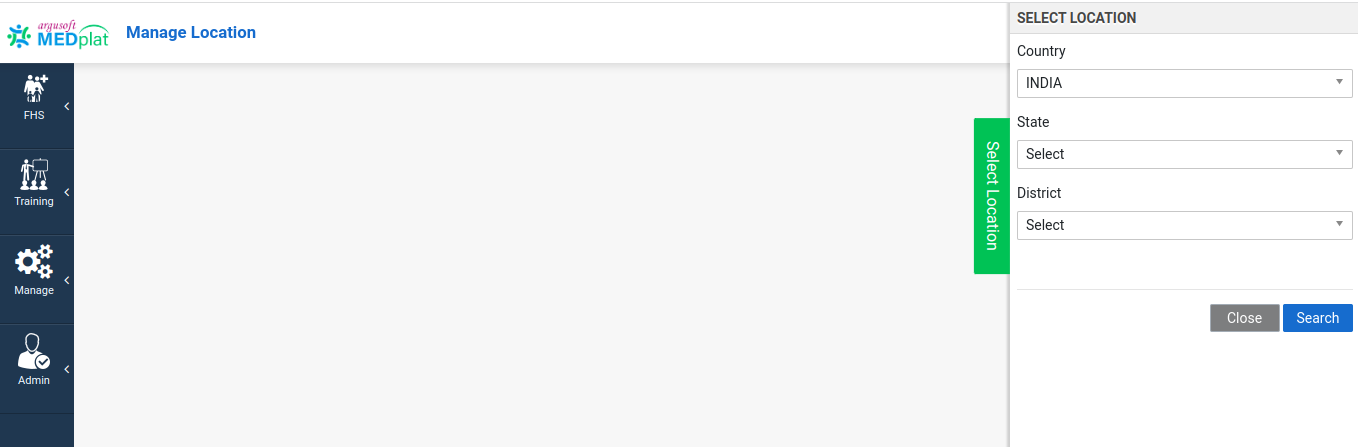
Similarly, add all the location types that are relevant to the context.

### Step 4) Adding location

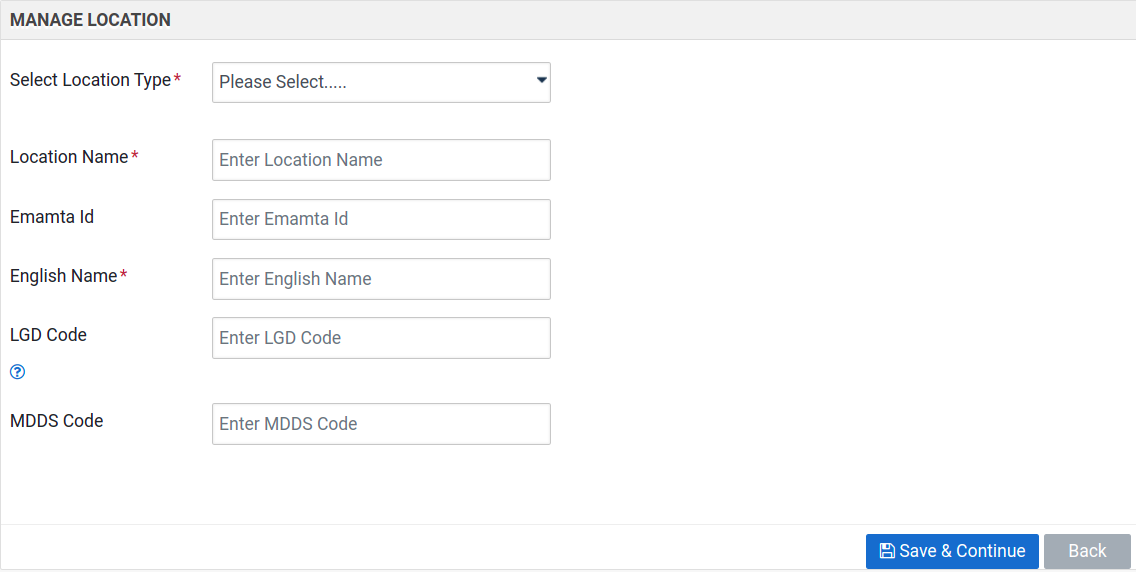
MEDPlat has a dedicated feature named ***‘Locations’*** to add the location information belonging to the context/country or any geographical region. Location is termed as a particular place or a region that can be categorized into a specific type. Thus, each location is associated with a location type.

*To add a location, follow the steps given below.*

* Navigate to **Manage** **>** click on **‘Locations’,** andthe following screen will appear



* Click on [2022-04-25_14-42.png](https://medplatdoc.argusoft.com/uploads/images/gallery/2022-04/2022-04-25-14-42.png), and the following screen will open.



* Select the **location type** for which you wish to add the location from the drop-down i.e., State [Mandatory]
* Enter the **location name** in any language e.g., गुजरात. The name entered here will be used everywhere throughout MEDPlat. [Mandatory]
* Enter the **English name** of your location e.g., Gujarat [Mandatory]
* Enter the **LGD Code** of your location. It is a unique code for each local government body of India. To get more information, please visit [**https://lgdirectory.gov.in/**](https://lgdirectory.gov.in/)
* Enter the **MDDS Code** of your location.

| **NOTE:** Please ensure that all the above fields are entered correctly. |
| --- |

* Click on [2022-04-18_15-38.png](https://medplatdoc.argusoft.com/uploads/images/gallery/2022-04/2022-04-18-15-38.png), and the location will be added.

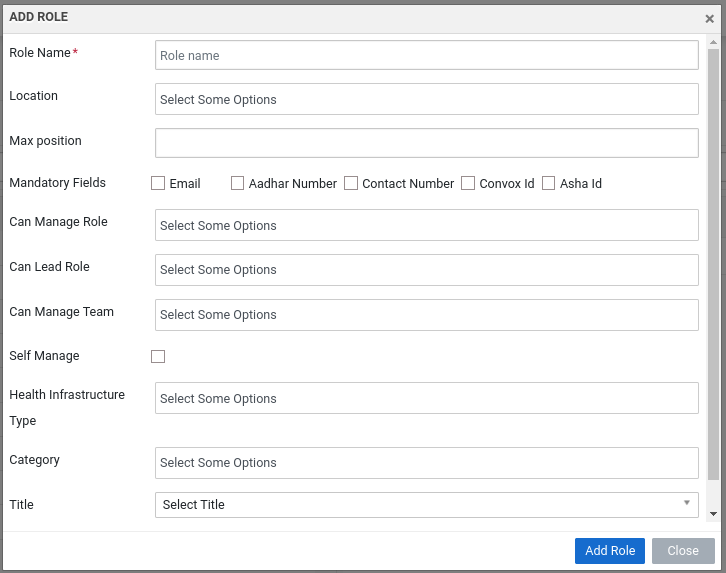
Similarly, you can add all the locations under different location types.

### Step 5) Role

Medplat has different features in web and mobile applications. For these features, we will require different users for web and mobile applications. Each user must be associated with a role according to the responsibilities of that user. It is mandatory to create a role before creating the user. A role can be associated with a particular location type where a user will be providing services. There is a varied set of roles depending on the country/context.

*To add a new role, follow the steps given below:*

* Navigate to **Admin > Role >** Click on  to add a new role and the following screen will open



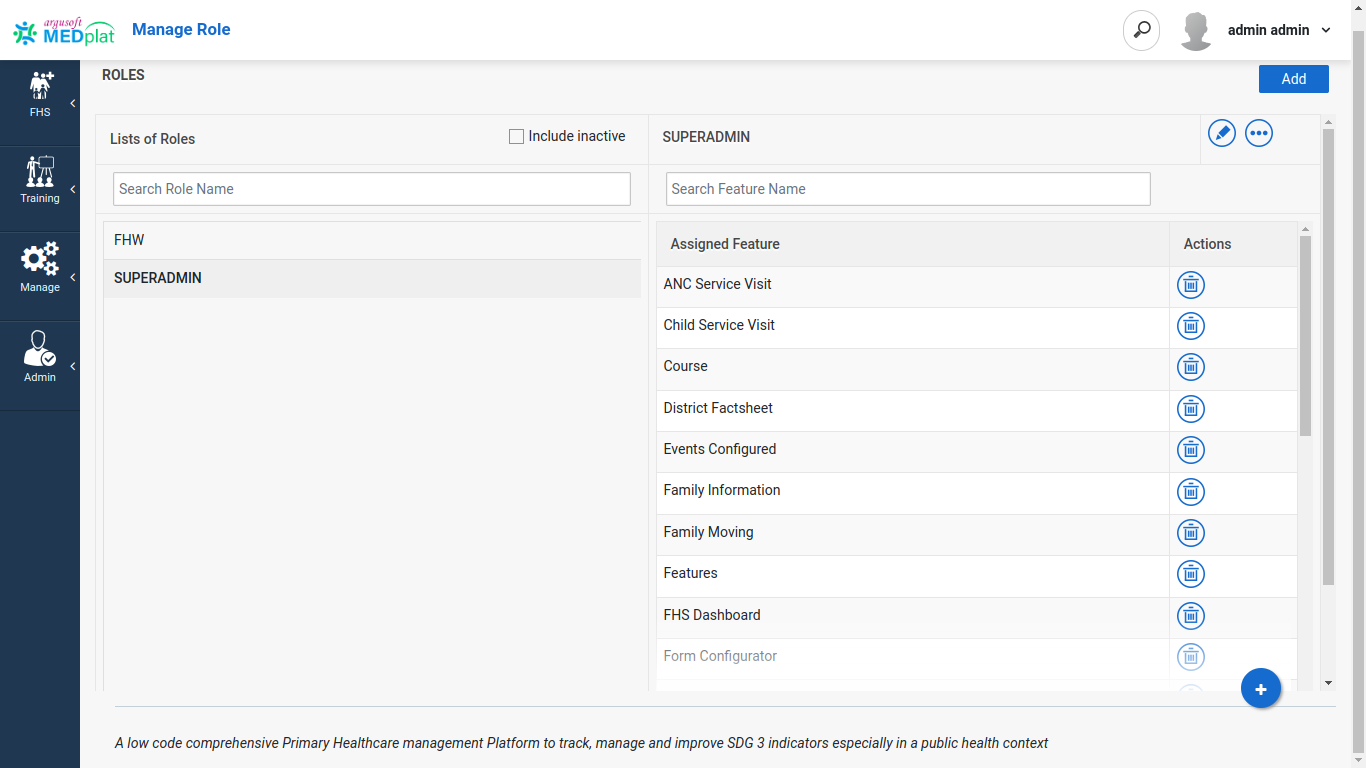
* Enter the **Role Name** e.g., ANM [Mandatory]

* **Location:** Select the location type where the user of this role will be providing the services e.g., ANM user will be providing services at the sub-center level. So, for the ANM role, we will add a subcenter under location.
* **Max position:** Enter the maximum no. of users that you want to create for this role at a particular location e.g., 1 - This means that only 1 ANM user will be created at a particular subcenter. It is recommended that we mention this count so that only required users are created at a particular location.
* **Mandatory Field:** If we require the below information to be collected from the user while adding a new user, then it must be marked as true.
* **Email**: If marked as true, then the **email** must be entered while creating a new user.
* **Aadhar Number**: If marked as true, then the **Aadhar Number** must be entered while creating a new user.
* **Contact Number**: If marked as true, then the **Contact Numbe**r must be entered while creating a new user.

* **Can Manage Role:** Select the role(s) that will be managed by this role. Here the list of already added roles will be shown. While creating a new role, if we want to provide rights to the new role to manage the existing roles, then we can select one or more roles from the list shown e.g., while adding an **Admin** role, if we want the admin user to manage the ANM role, then we must select the **ANM** role from here. This means that the admin user will be able to manage the ANM role and also add or update users of the ANM role.
* **Self-Manage:** It’s recommended to mark self-manage as true while creating a new role so that newly created role can add or update their own role and also add or update the users e.g., while adding an adminrole, if we mark this option as true, then all users of the admin role will be able to manage the admin role and also add or update users of the admin role.
* **Health Infrastructure Type:** Select the health infrastructure type. We can associate a role to a particular health infrastructure type where the users of this role will be providing the services e.g., we can associate district type of health infrastructures with a district MO role. So, while creating a user of a district MO, we will be able to associate a particular district hospital with this user.
* **Category:** Select the category.
* Click on  and the role will be added successfully and listed in the list of roles.

### Step 6) Update SuperAdmin Role

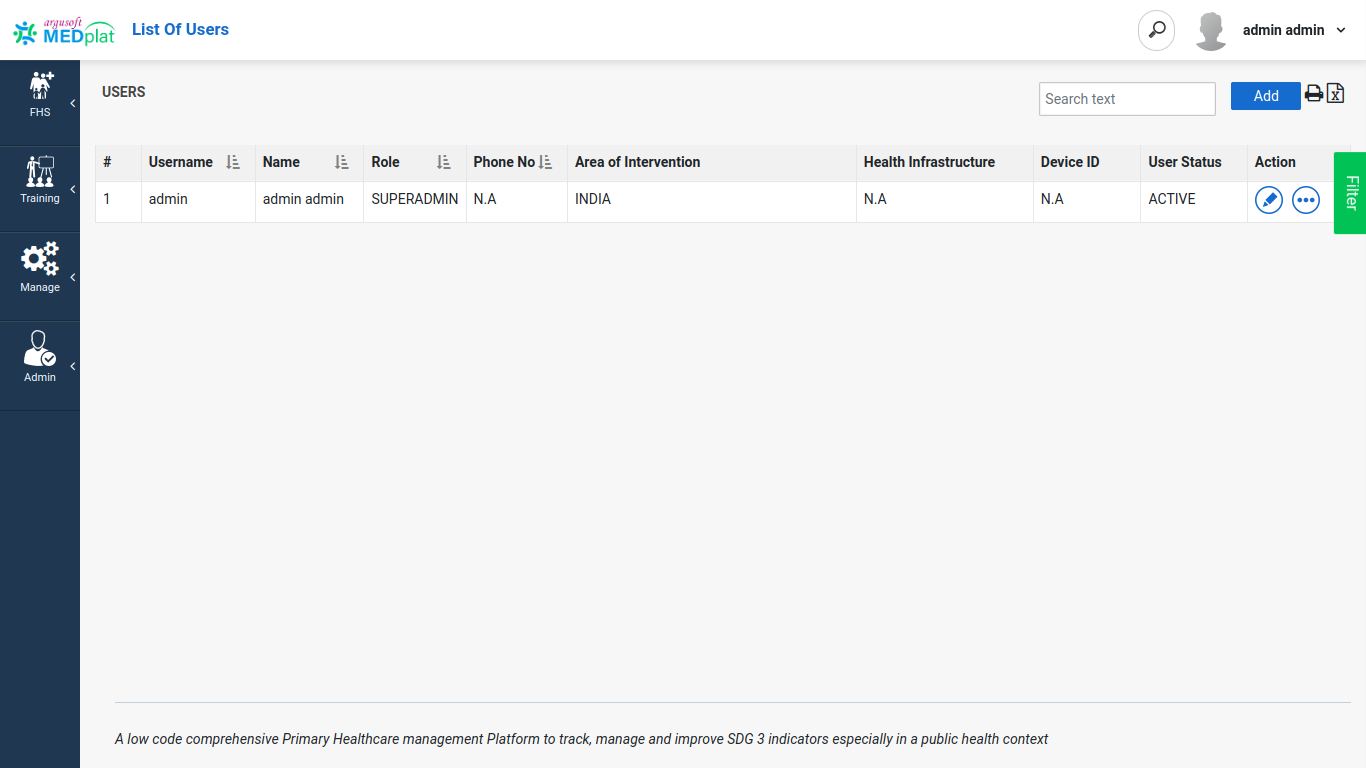
* On the right side, search for the Super Admin role from the list of roles **>** click on the **edit ** icon

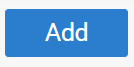
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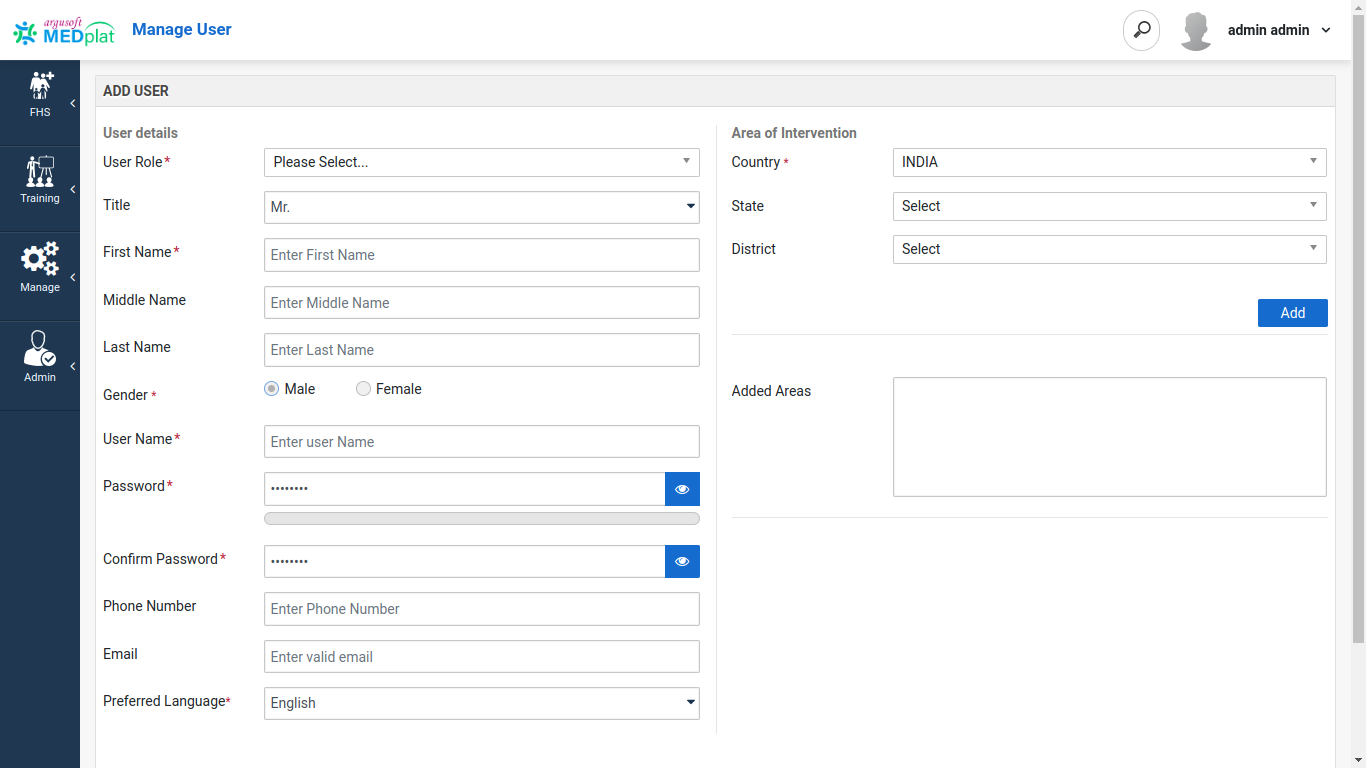
* Under **Can Manage Role,** select the role(s) that will be managed by this role. Here the list of already added roles will be shown e.g., ANM **>** click on, and the role will be updated.

### Step 7) Users

* Navigate to **Manage** **>** click on **‘Users’,** andthe following screen will appear



* Click on  to start adding the user, and the following screen will open.



* **User Role**: Select the role of this user from the drop-down list e.g., ANM [Mandatory]
* **Title**: Select the title e.g., Ms.
* **First Name**: Enter the first name of the user [Mandatory]
* **Middle Name**: Enter the middle name of the user.
* **Last Name**: Enter the last name of the user [Mandatory]
* **Gender**: Click on any of the radio buttons to select the gender [Mandatory]
* **User Name**: Enter the username [Mandatory]
* **Password**: Enter the password [Mandatory]
* **Confirm Password**: Re-enter the password added in the above password field [Mandatory]
* **CUG Phone Number:** Enter the valid phone number of the user.
* **Email**: Enter the valid email address of the user.
* **Adhar Number:** Enter the valid Aadhar number of the user.
* **Preferred Language**: Select the preferred language [Mandatory]
* Selectthe **Area of Intervention**. Select the location according to the location type set while creating the role. This is the location where the user will be performing the assigned tasks or providing services to the beneficiaries. For example, while adding the user of the ANM role, it will be mandatory to select the location up to the sub center. Click on **Add** button, and make sure that location is added under the **‘Added Areas’ section**

**Note:** In the same way, we can associate the user with multiple **areas of intervention.**

* Click on  to save this user list. Details of this user will be displayed in the list of users.